

Miscellaneous Notes on the East Asiatic Uredinales
with special reference to the Japanese Species
(VII)

By

Naohide HIRATSUKA

平塚直秀: 東亞銹菌類雜考 (其七)

147) **Milesina chikugoensis** HIRATSUKA, f. in Transact. Sapporo Nat. Hist. Soc. XVI, p. 140, 1940.

Hab. On *Cyrtomium Fortunei* J. Sm. (*Polystichum Fortunei* NAKAI) (*Yabu-sotetsu*).

Honshû: Prov. Inaba: Tottori (April 9, 1939, HIRATSUKA, f.). New to *Honshû*!

148) **Milesina Coniogrammes** HIRATSUKA, f. in Bot. Mag. Tokyo, XLVIII, p. 45 & text-fig. 6, 1934; Monogr. Pucciniastreæ, p. 99 & pl. V, fig. 6.

Milesia Coniogrammes TRANZSCHEL, Conspect. Ured. URSS, p. 66, 1939 (*syn. nov.*).

149) **Hyalopsora Diplazii** HIRATSUKA, f. nov. spec.

Hyalopsora Polypodii (not MAGNUS) Auct.

Soris uredosporiferis amphigenis, subepidermalibus, sparsis vel laxe aggregatis, minutis, rotundatis vel oblongis, 0.1–0.6 mm diam., mox apertis et sub-pulverulentis, flavidis; paraphysibus paucis tenuiter tunicatis cinctis; uredosporis obovatis, ellipsoideis vel oblongis, rarius oblongo-clavatis, distincte verruculosis, 23–41 × 15–23 μ ; episporio 0.8–1.2 μ crasso, hyalino; poris germinationis 2–4 aequatorialibus praeditis; amphisporis variabilibus, ovatis, ellipsoideis, piriformibus vel oblongis, saepe angulatis vel irregularibus, fere levibus, 20–38 × 14–25 μ ; episporio hyalino, 1.5–5 μ , ad angulos usque 7.5 μ crasso; poris germinationis 4–7 sparsis praeditis.

Teleutosporis intra cellulas epidermidis evolutis, plerumque dense aggre-

gatis, levibus, hyalinis, 2-pluri-cellularibus (plerumque 2-5), 20-32 μ diam.; episporio tenui, 1 μ crasso.

Hab. On *Diplazium squamigerum* H. CHRIST. (*Kiyotaki-shida*). Honshû: Prov. Shinano: Mt. Komagatake (Kiso) (Aug. 9, 1931; Aug. 22 & 24, 1932, HIRATSUKA, f.). Prov. Inaba: Mt. Naginosen (July 31, 1932, HIRATSUKA, f. & Y. YOSHIDA); Mt. Hyônosen (Aug. 29, 1930, HIRATSUKA, f. type!; Sept. 25, 1932, O. ISHIUCHI).

This species closely resembles *Hyalopsora Polypodii* (DIET.) MAGNUS, especially in characters of amphispores, but, the uredospores of this fungus are larger than those of the latter species, and their walls are distinctly verrucose while those of the latter are slightly echinulate or nearly smooth.

150) ***Pucciniastrum alaskanum* MAINS** in Bull. Torrey Bot. Club, LXVI, p. 620, 1939.

Pucciniastrum (?) *beringianum* TRANZSCHEL, Conspect. Ured. URSS, p. 319, 1939 (*syn. nov.*).

Hab. On *Gentiana glauca* PALL. *Alaska*: Mt. Mc Kinley National Park (D. V. BAXTER, type of *Pucciniastrum alaskanum* MAINS!); Bering Isl. (E. KARDAKOVA, type of *Pucciniastrum* (?) *beringianum* TRANZSCHEL!).

151) ***Pucciniastrum Crawfurdiae-japonicae* HIRATSUKA, f. nov. spec.**

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, saepe totam folii superficiem plus minus aequaliter obtectentibus, minutis, rotundatis, 0.12-0.25 mm diam., tandem poro centrali apertis, flavo-brunneis vel brunneis; peridio hemisphaericô, ex cellulis minutis, irregulariter polygonalibus, 9-14 μ diam., cellulis ostiolaribus rotundatis, 12-16 μ diam., levibus; uredosporis obovatis, late-ellipsoideis vel oblongis, aculeatis, 22-32 \times 13-18 μ ; episporio 1.5-3 μ crasso. Teleutosporis ignotis.

Hab. On *Crawfurdia japonica* SIEB. et ZUCC. (*Tsuru-rindô*). *Hokkaidô*: Prov. Kitami: Okedo-mura (Aug. 26, 1929, M. OKAMOTO, type!).

The present species closely resembles the Philippine species, *Pucciniastrum Crawfurdiae* SYDOW.⁽¹⁾ But, it distinctly differs from the latter by having narrower uredospores with thicker and aculeate episporo.

(1) SYDOW & PETRAK in Ann. Myc. XXIX, p. 170, 1931.

152) **Thekopsora nipponica** HIRATSUKA, f. nov. spec.

Soris uredosporiferis hypophyllis, sparsis vel aggregatis, saepe totam folii superficiem aequa obtegentibus, minutis, rotundatis vel oblongis, 0.2-1 mm diam., flavis vel flavo-brunneis, tandem poro centrali apertis; peridio hemisphaerico, ex cellulis minutis, irregulariter polygonalibus, 6-13 μ diam., cellulis ostiolaribus rotundatis, levibus; uredosporis globosis, subglobosis vel obovatis, dense verrucosis, 16-24 \times 15-22 μ ; episporio hyalino, 2-2.5 μ crasso.

Soris teleutosporiferis plerumque hypophyllis, inconspicuus; teleutosporis in cellulis epidermidis evolutis, subglobosis vel ellipsoideis, 2-6-cellularibus, flavo-brunneis, levis, 24-75 μ latis, 18-24 μ altis; episporio tenui, 1-1.5 μ crasso, ad apicem paullo crassiore.

Hab. On *Galium davuricum* TURCZ. (*Ôba-no-yaemugura*). *Hokkaidô*: Prov. Ishikari: Mt. Teine (Oct. 19, 1924, HIRATSUKA, f.); Garugawa (Oct. 17, 1925, HIRATSUKA, f.). Prov. Shiribeshi: Zenibako-tôge (Nov. 1, 1925, HIRATSUKA, f.). Prov. Ôshima: Ônuma (Oct. 29, 1922, HIRATSUKA, f., type!). *Honshû*: Prov. Inaba: Mt. Ôginosen (Oct. 17, 1931, Y. YOSHIDA & T. KATAYAMA).

The present species distinctly differs from *Thekopsora guttata* (SCHRÖT.) SYDOW, by the shape and size of uredospores and the characters of episporia of the uredospore. The uredospores of this fungus are mostly globose or subglobose, measuring 16-24 \times 15-22 μ , while those of *Thekopsora guttata* are mostly obovate, ellipsoidal or oblong, measuring 13-24 \times 10-18 μ . The episporia of uredospore of the former species is closely verrucose, while that of the latter is minutely echinulate.

153) **Thekopsora Myrtillina** KÄRSTEN, Myc. Fenn. IV, p. 59, 1879; HIRATSUKA, f., Monogr. Pucciniastreæ, p. 306 & pl. IX, fig. 6, 1936.

Thekopsora myrtilli TRANZSCHEL, Conspect. Ured. URSS, p. 312, 1939 (*syn. nov.*).

154) **Thekopsora Fischeri** CRUCHET in Bull. Soc. Vaud. d. Sci. Nat. II, p. 77, 1916; HIRATSUKA, f., Monogr. Pucciniastreæ, p. 327, 1936.

Thekopsora(?) ericae TRANZSCHEL, Conspect. Ured. URSS, p. 312, 1939 (*syn. nov.*).

155) **Phakopsora Artemisiae** HIRATSUKA, f. in Jap. Jour. Bot. III, p. 298, 1927; Bot. Mag. Tokyo, XLIX, p. 854, 1935.

Phakopsora Artemisiae-japonicae TRANZSCHEL, Conspect. Ured. URSS, p. 380, 1939 (*syn. nov.*).

156) **Chrysomyxa Rhododendri** DE BARY in Bot. Zeitg. XXXVII, p. 809 & pl. X, figs. 1-6, 1879.

Hab. On *Rhododendron parvifolium* ADAMS (*Sakai-tsutsuji*). *Hokkaidō*: Prov. Nemuro! Cape Ochi'ishi (July 17, 1924, HIRATSUKA, f.). *Rhododendron parvifolium* is a new host plant for this species.

157) **Chrysomyxa succinea** (SACC.) TRANZSCHEL, Conspect. Ured. URSS, p. 314, 1939.

Gloeosporium succineum SACCARDO in Michelia, II, p. 145; Syll. Fung. III, p. 708; THÜMEN, Mycotheca Univ. no. 1765.

Chrysomyxa alpina HIRATSUKA, f. in Bot. Mag. Tokyo, XLIII, p. 471, 1929.

Hab. On *Rhododendron chrysanthum* PALL. (*Kibana-shakunage*).

158) **Cerotelium Tanakae** ITO in ITO & HOMMA in Transact. Sapporo Nat. Hist. Soc. XV, p. 118, 1938.

Hab. On *Amphicarpaea trisperma* BAKER (*Falcata comosa* O. KUNTZE var. *japonica* MAK.) (*Yabumame*). *Honshū*: Prov. Echizen: Eiheiji (Sept. 24, 1939, HIRATSUKA, f. & E. TOBINAGA). New to Honshū!

159) **Kuehneola Uredines** (LINK) ARTHUR in Résult. Sci. Congr. Internat. Bot. Vienne (1905), p. 342, 1906.

Hab. On *Rubus* sp. (*Rubus nigrobaccus* BAILEY?) (*Cultivated*). *Honshū*: Prov. Echizen: Maruyamanishi-mura (Sept. 21, 1939, E. TOBINAGA). New to Honshū!

160) **Aplospora Lonicerae** TRANZSCHEL, Conspect. Ured. URSS, p. 347 & text-figs. 6 & 7, 1939.

Hab. On *Lonicera strophiophora* FRANCH. (*Arage-hyōtanbōku*). *Honshū*: Prov. Rikuchū: Asakishi-mura (Sept. 24 & Oct. 21, 1906, G. YAMADA).

The present species is new to the mycological flora of Japan, and *Lonicera strophiophora* is a new host plant for it.

149) *Hyalopsora Diplazii* HIRATSUKA, f. (新種) 一きよたきしたヲ寄主トスルモノデ、從來、*Hyalopsora Polypodii* (DIET.) MAGNUS トシテ取扱ハレテ居ツタ菌デアルガ、同種トハ夏胞子ノ諸性質ニヨツテ明カニ區別スル事が出來ル。本州信濃(木曾駒ヶ岳)、因幡(那岐山、氷ノ山)ノ產デアル。

151) *Pucciniastrum Crawfurdiae-japonicae* HIRATSUKA, f. (新種) 一つるりんだうニ寄生、北海道北見國置戸村ニ於テ岡本三男氏ノ採集ニ係ルモノデアル。フィリッピン諸島產ノ *Pucciniastrum Crawfurdiae* SYDOW トハ夏胞子ノ形、大サ、被膜ノ性質等ニヨツテ明カニ區別スル事が出來ル。

152) *Thekopsora nipponica* HIRATSUKA, f. (新種) 一おはばのやへむぐらニ寄生。本種ハ *Thekopsora guttata* (SCHRÖT.) SYDOW トハ顯微鏡的ニハ夏胞子ノ形、大サ、被膜ノ性質ニヨリ、肉眼的ニハ夏胞子堆ノヨリ大形ナル點ニヨツテ明カニ區別出來ル。北海道石狩國手稻山、輕川村、後志國錢函峠、渡島國大沼湖畔、本州因幡國扇ノ山ノ產デアル。

160) *Aplospora Lonicerae* TRANZSCHEL 一あらげひょうたんぼくニ寄生。山田玄太郎博士ガ本州陸中國淺岸村ニ於テ發見採集サレタモノデ、今回新ニ我國銹菌「フロラ」ニ加ヘ得タ種類デアル。因ニ本種ハ蘇領沿海州及ビ満洲國ニ廣ク分布ス。